Author Index to Volume 23 (1978)

1–116 JAN	341–444 APR	637–732 JUL	917–1038 OCT
117–228 FEB	445–540 MAY	733–820 AUG	1039–1126 NOV
229–340 MAR	541–636 JUN	821–916 SEP	1127–1222 DEC

Adams, Alexander 286
Allen, James (cartoonist) 444, 636, 1034, 1126, 1222
Austin, Tom L 864
Bageant, Robert A 246, 248, 742
Bakow, Eric D 281, 648
Bancroft, M Lee 1179
Banner, Michael J 237
Barach, Alvan L 124, 579
Barkalow, Clare E 128, 830
Bean, Gerald W 458
Bernhard, William N 176, 178, 760
Block, Andrew S 269, 454, 652
Blomefield, Jan 290
Boisvert, Patrick 408
Bone, Roger C 83, 195, 258, 779, 889
Boucher, Raymond MG 1063
Bowen, Frank W, Jr 465
Braman, Sidney S 237, 242
Braun, Norma MT 616
Brown, David T 844
Bryant, Steven K 1136
Burns, Thomas G 776
Burton, George G 769
Cadose, Linda A 264, 656
Calderone, Samuel A 26
Caldwell, Frank 286
Capek, Kenneth 924
Cartig, Jose 58, 132
Casey, Michael P 949
Cicman, James H 559
Clarke, Albert SJ 349
Clydesdale, Paul A 554
Conine, Tali A 45, 680
Coughlin, Rich 960
Coyle, Marie B 476
Crocker, Dean 264
Deane, Robert S 408
Demers, Robert R 21, 24, 128, 237, 242, 758, 830
Desautels, David A 42
Dyro, Joseph F 127
Ellis, Sharon Sapir 864
Emralino, Ceferino Q 176, 178
Epstein, Ralph 1151
Eubanks, David H 717
Evans, Robert N 281, 648
Eves, Kathy 1052
Ewing, Charles W 959
Farwell, Charles E 291, 838
Fegan, Frank J 586, 860
Ferreiro, Eustaquio 246
Fields, Alan 1136
Flaherty, Patrick (cartoonist) 116, 340, 540, 732
Fluck, Robert R, Jr 211, 335, 420, 491, 624, 714, 844, 1202
Fried, Jacob L 22
Frisbie, Wes 243
Fuchs, Patricia L 743
Fusco, Daniel 671
Galgon, John P 281
Gansel, Guy 32
Gantt, E Eugene 873
Garcia, Maria Elena 58
Garcia-Tornel, Santiago 58, 132
Gast, Lee Roy 149
George, Ronald B 261, 649
Glover, Dennis W 1026
Goldblatt, Michael B 1137
Goldsmith, Jay P 873
Good, Tim J 1052
Greenbaum, Dennis M 1137
Grenard, Steve 645
Grenvik, Ake 671
Gross, Raymond C 1197
Gunderson, Michelle 221, 868
Hall, Dexter R 25
Haning, Nick S 455
Harrison, Diana 820
Henschel, Ernest O 167
Hoffman, Michael F 250
Hoffman, Peter J 264
Holcroft, James W 249
Horsman, Jan 767
Hursey, Francis X 155, 550
Irwin, Richard S 237, 242
Jenkinson, Stephen G 101
Jones, Robert N 989
Kamen, Jack 625
Kenney, James M 132
Kerby, Gerald R 779
Kernaghan, Salvinija G 570, 596, 599, 693, 811
Kirshenbaum, Harry 258
Kittredge, Philip 37, 60, 262, 383, 577, 669, 965, 1077
Klein, EF, Jr 42
Koncher, Ron 49
Koss, Joe A 45
Kroger, Larry A 124
Kupferberg, Seth 212
Laman, Michael A 102, 349
Lansky, Lester L 392
Lasky, Michael S 836
Lebowitz, Leon C 291, 838
Lee, Gary E 228
Lehman, Malcolm E 293
Lehmus, John 644
Lehnert, Bruce E 841
Levine, Bernard E 960
Lewis, William J 465
Linn, C Robert 392
Locher, Thomas J 1000
Lough, Marvin 96
Loveland, Steven R 384, 743
Macklem, Peter T 201
Martin, Jose Maria 58, 132
Mathewson, Hugh S 392, 567
Milash, Paul 644
Miller, Kenneth G 924
Miller, William F 149
Minsloff, Mark 255
Misra, Bijaya K 851
Morrison, Donald R 39, 1001
Nadal-Amat, J 132
Nelson, Ellan J 476, 841
Newman, Sue 487
Nussbaum, Eliezer 627
O'Donohue, Walter J, Jr 1149
O'Ryan, Jerry A 31

INDEX

Oslick, Theodore 1197
Owens, William D 249
Paegle, Roland D 760
Pai, Sharada 864
Pano, Eddie A 1058
Pearson, S 742
Perry, Douglas 94
Petty, Thomas L 579
Pickut, Walter W 760
Pilipski, Mark 644
Porter, Philip A 174
Powers, Samuel 1078, 1092
Powers, William E 39, 550
Powner, David 671
Pursley, Douglas M 26, 1136
Rarey, Kanute 789, 1052
Rau, Joseph L, Jr 26
Rauzi, Harold R, Jr 686
Rinaldo, Susan C 644
Risley, Betty 158
Rochester, Dudley F 616
Rucker, Ralph 959
Rueckl, Richard G 680
Ruth, William E 779
Sanderson, Ronald R 42
Saposnick, Allan B 604
Scacci, Robert 149
Scanlan, Craig L 216, 328, 397, 415, 1004
Scharf, John H 98
Schwarz, John O 1137
Sesney, John 49
Shelly, Richard W 30
Shinozaki, Tamotsu 408
Silva, Graciela 856
Silver, Michael S 476
Smith, Edmond R 349
Smith, Raymond W 281
Smith, Robert A 14
Smith, William 586
Snyder, James V 671
Sommer, S 454
Sorbello, Joseph G 924
Soroka, Max 589
Sosa, Roberto A 56
Spotnitz, Seth G 960
Stackpole, Irving L 755
Stassi, Edith K 384, 743
Steen, John A 1179
Stein, Christine 959
Steinberg, H 254
Stenzler, Alex 247, 254
Sterling, Dean E 1136
Strouse, Timothy 56
Sullivan, Michael 254
Thomas, Leslie S 454
Tobeña, Luis 58, 132
Ullman, Terry 238
Vincent, Joseph E 281
Walker, Stephen 650
Wanner, Adam 856
Weill, Hans 989
Wernerus, Herman 856
Whitacre, James F 1174
Williams, Bruce 487
Woodson, Robert D 421
Wyka, Kenneth 718, 1007
Yakulis, Robert 671
Yost, Leon 176, 178, 760
Youtsey, John 789
Ziment, Irwin 1087
Zwagil, Larry W 26, 1136

Subject Index to Volume 23 (1978)

1–116 JAN	341–444 APR	637–732 JUL	917–1038 OCT
117–228 FEB	445–540 MAY	733–820 AUG	1039–1126 NOV
229–340 MAR	541–636 JUN	821–916 SEP	1127–1222 DEC

A

AART Convention program 968
Abdominal surgery effect on lung 1092
Abstracts (Open Forum) 60
Acid-base derangements (neonatal) and bicarbonate 465
Acute respiratory distress syndrome of adults 1087
Aerosol—Antibacterial action of copper in 476, 841
Aerosol medication devices compared 80
Aerosol particle-size distribution 569
Aerosol tent fluid-feed system 174
Aerosols (mucolytic) 492
Age effect on response to volume-oriented postoperative IPPB 63
Air-oxygen mixing 243
Air-oxygen mixing calculation 644
Airway monitoring 776
Airway resistance in COPD treated with IPPB and isoproterenol 871
Airways (small) disease 201
Allied health education growing pains 596, 693
Analyzer (oxygen) accuracy 742
Anesthesia system (Jackson-Rees) overflow gas scavenger 178
Anesthesiologist's assistants getting recognition 812
Antibacterial action of copper in aerosols 76, 476, 841
Antibiotics in respiratory care 492
Antiviral drugs 696
Apnea monitor study 127
Appraisal of students' clinical performance 49
Arterial/alveolar oxygen tension ratio as clinical tool 74
Arterial hemoglobin measurement—Effect of heparin dilution on 149
Arterial puncture in infants 644
Arterial puncture pressure bandage 286
Association for the Advancement of Medical Instrumentation Annual Meeting 776
Athletes: born or made? 412

B

Bacterial removal by filters 124
Bainbridge reflex 844
Barach (Dr Alvan Leroy) memorial 577
BEAR I ventilator and patient safety 550
Bicarbonate use and abuse in neonates 465
Bird Literary Award winners 1096
Blood (arterial) microsampling in neonates 132
Blood gas stability in various syringes 63
Book reviews:
"Asthma in Children" (Jones) 96
"Clinical Application of Blood Gases" 2nd ed (Shapiro *et al*) 98
"Cystic Fibrosis: Manual of Diagnosis and Management" (Anderson & Goodchild) 627
"The Design of Education" (O'Houle) 328
"Dictionary/Reference Guide for Respiratory Therapy" 1000
"Evaluating Clinical Competence in Health Professions" (Morgan & Irby) 717
"Mechanical Artificial Ventilation: A Manual for Students and Practitioners" (Heironimus & Bageant) 415
"Medical Director's Handbook" 1001
"The Normal Lung—The Basis for Diagnosis and Treatment of Pulmonary Disease" (Murray) 718
"Pulmonary Medicine" (Guenter & Welch) 101
"Respiratory Care, A Guide to Clinical Practice (Burton, Gee, Hodgkin) 1197
"Respiratory Therapist Manual" (Pincus) 102
"Respiratory Therapy Equipment" (McPherson) 94
"Respiratory Therapy Pharmacology" (Rau) 1007
"Tracheal Intubation" (Applebaum & Bruce) 625
"Tracheostomy and Artificial Ventilation in the Treatment of Respiratory Failure" (Feldman & Crowley) 625
Bourdon gauge teaching model 293
Bourns BEAR I manual 32
Bourns ventilator compliance and flow rate modified 291
Bronchodilator (new) 263
Bronchodilatation by xanthine 26
Bronchodilators 492
Burn patients (pediatric) and respiratory tract injury 66

C

Calculator for I:E in mechanical ventilation 487
Cancer: How to make tobacco companies pay 212
Cannula for tracheal stenosis 959
Capillary filling time in neonatal ventilation 65
Cardiac output computers 249
Cardiopulmonary resuscitation effectiveness 79
Case report publication 669, 924
Catheterization of bronchi and tracheal bifurcation angle in newborns 64
Challenges to the respiratory therapy profession 769
Chest trauma 1078
Children and infants—Fixating endotracheal tubes in 58
Children's lungs 679
Clinical engineering 776
Clinical evaluation of clinicians using patient-management problems 397
Clinical performance appraisal of students 49
Clinical simulation for registry evaluation 570
Clinical skills evaluation 269, 650
Clinical skills of students—assessing 158
CO_2 narcosis in COPD 83, 195
Communication with patients by vocabulary board 290
Competency-based education 30
Compressible ventilator volume 349
Compression factor in MA-1 modified infant circuit 656
Computer analysis of respiratory therapy utilization 71
Computer-assisted mechanical ventilation program 70
Computer vision 297
Computers (cardiac output) 249
Computers in ventilation management 70
Conditioning (physical) of COPD patients 78
Continuous negative pressure breathing 124
Continuous positive pressure breathing 124
Convention (AART) program 968

COPD = chronic obstructive pulmonary disease
COPD acute exacerbation—Mucomyst efficacy in 80
COPD and CO_2 narcosis 83, 195
COPD patients—Physical conditioning of 78
COPD treated with IPPB and isoproterenol 871
Copper's antibacterial action in aerosols 76, 476, 841, 924
Coronary bypass postoperative respiratory care 62
Cost-effectiveness of peri-operative respiratory therapy 62
CPAP = continuous positive airway pressure
CPAP—Securing nasal devices for 56
CPR = cardiopulmonary resuscitation
CPR manikin decontamination 846
Credentialing 1052, 1149
Credentialing (state) 755
Credentialing—Students ill-informed about 349

D

Decontamination of CPR manikins 846
Device (health) legislation 1179
Disinfectant (glutaraldehyde) stability 1063
Documentation (IPPB) 644
DPG 421
Drager ventilation meter accuracy 856
Dyspnea panic relieved with tape recordings 767

E

Education (allied health) growing pains 596, 693
Education: Does anti-smoking education work? 811
Education (inservice) 846
Education (inservice) for educators 30
Educators' education 30
Effort of patient with IMV-PEEP 25
Effort of patient with open IMV 1136
Electrical safety in medicine 965
Endotracheal tube fixation in infants and children 58
Endotracheal tube resistance 14, 128, 830
Engineering (clinical) 776
Equipment care (preventive) 777
Equipment operator errors 776
Evaluation of clinical skills 269
Exam guides (NBRT) 454
Exam (NBRT clinical simulation) 570
Exam (self-evaluation) answers disputed 455
Exhibits—AART Convention 599

F

Feed (fluid) system for Ohio pediatric aerosol tent 174
Film review:
"How to Use and Clean Your Breathing Machines" 1004
Filters for removing bacteria 124
Fitness (physical): Jogging beats hockey 181
Fixating endotracheal tubes in infants and children 58
Flow characteristics of MA-1 250

G

Gas (medical) mixups—Preventing 554
Gas laws and ventilator circuits 836
Glutaraldehyde disinfectant stability 1063
Guillain-Barré syndrome 167

H

Handwashing after treatment 454
Health device legislation 1179
Hearing and ultrasound 645
Heparin dilution effect on arterial blood hemoglobin measurement 149
Hemoglobin (arterial) measurement—Heparin dilution effect on 149
High-frequency ventilation 776
Hockey inferior to jogging for fitness 181
Humidifier overfilling 1022
Human relations skills of supervisors 680
Hydration 492
Hypertension (intracranial)—Effects of mechanical ventilation on 82
Hypoxemia treated with oxygen enricher 78

I

ICU (neonatal) and noise 64
I:E Calculation 846
I:E calculator for mechanical ventilation 487
Immunity and smokers 689
IMV = intermittent mandatory ventilation
IMV 14, 25, 79, 1136
IMV-PEEP 25
IMV valve (universal) 408
Incentive spirometry postoperative volume 62
Infant artery puncture 644
Infant lungs 679
Infant ventilator made from adult ventilator 264
Infants and children—Fixating endotracheal tubes in 58
Injury (equipment-related) investigation 776
Inservice education 846
Inspired volume evaluation in IPPB patients 39
Inspired volume (postoperative) with IPPB and incentive spirometry 62
Intensive care (respiratory) 949
Interpreting pulmonary function tests 779
IPPB = intermittent positive pressure breathing
IPPB 492, 648
IPPB documentation 644
IPPB indications and alternatives 758
IPPB with isoproterenol in COPD 871
IPPB postoperative volume 62
IPPB (volume-oriented) 39
IPPB (volume-oriented, postoperative)—Age effect on 63
IPPB: What is a treatment? 261
IPPB: What is not a treatment? 262
Isoproterenol and IPPB in COPD 871

J

JCAH = Joint Commission on Accreditation of Hospitals
JCAH Standards for Respiratory Care 876
Jimmy Young Medal awarded 1185
Job characteristics of respiratory therapy personnel on Long Island 79
Jogging better than hockey for fitness 181

L

Legislation on health devices 1179
Life-support termination 132
Literary Award (Warner-Chilcott) winner 44
Literary Awards (Bird) winners 1096
Lungs of infants and children 679

M

MA-1 compression factor in modified infant circuit 656
MA-1 flow characteristics 250
MA-1 sigh mechanism testing 924
MA-1 ventilator modified for infant use 264
Manikin (CPR) decontamination 846
Mass spectrometry monitoring of respiratory variables 671
Mechanical ventilation—Therapist's role in 567
Meter (ventilation) accuracy 856
Microsampling neonatal arterial blood 132
Mist (bland) 492
Molecular high humidity in mechanical ventilation weaning 281
Monitor (apnea) study 127
Monitoring (*in vivo* oxygen) 777
Monitoring pressure-limited neonatal ventilators 74

Monitoring respiratory variables by mass spectrometry 671
Mucolytic aerosols 492
Mucomyst efficacy in acute exacerbation of COPD 80
Muscles (respiratory) 616

N

Narcosis (CO_2) in COPD 83, 195
Nasal CPAP devices—Securing 56
NBRT clinical evaluation exam 570
NBRT exam guides 454
Nebulizer particle-size distribution 569
Neonatal arterial blood microsampling 132
Neonatal effects of transfusions 65
Neonatal ICU—Noise of respiratory devices in 155
Neonatal pressure-limited ventilator monitoring 74
Neonatal tracheal atresia 864
Neonatal transport: Pre-transport stabilization 868
Neonatal use and abuse of bicarbonate 465
Neonatal ventilation and capillary filling time 65
Newborn tracheal bifurcation angle and bronchial catheterization 64
Nitrous oxide cylinder security 458
Noise in neonatal ICU 64
Noise of respiratory therapy devices in neonatal ICU

O

Occupational lung disease 989
Open Forum abstracts (1977) 60
Operating-room pollution scavenger 176
Overflow-gas scavenger for Jackson-Rees anesthesia system 178
Oxygen-air mixing 243
Oxygen-air mixing calculation 644
Oxygen analyzer accuracy 742
Oxygen enricher to treat hypoxemia 78
Oxygen-induced changes in rats 760
Oxygen monitoring (*in vivo*) 777
Oxygen saturation (arterial) during nasotracheal suctioning 68
Oxygen solubility coefficient 246
Oxygen tension ratio (arterial/alveolar) as clinical tool 74
Oxygen toxicity in rats 760
Oxygen toxicity and superoxide 851
Oxygen transport 421

P

P_{50} 421
Panic of dyspnea treated with tape recordings 767
Patient-management problems for evaluating clinicians 397
Pediatric burn patients and respiratory tract injury 66
Pediatric pulmonary function values related to morphometry 68
PEEP = Positive End-Expiratory Pressure
PEEP with PMR 1137
Performance of respiratory therapy personnel on Long Island 79
Perinatal-neonatal regionalization 873
Peri-operative respiratory therapy protocol cost-effectiveness 62
Personal experience of Guillain-Barré syndrome 167
Personnel exhaustion 778
Physical conditioning of COPD patients 78
Physical fitness: Jogging beats hockey 181
Physical therapy 492
Physiological approach to mechanical ventilation 71
Physiological effects of IMV 79
Physiotherapy: Self-administered vibration 960
PMR PEEP modification 1137
Pollution (operating-room) scavenger 176
Postoperative complications—Preventing 60
Postoperative inspired volume with IPPB and incentive spirometry 62
Postoperative respiratory care 454
Postoperative respiratory care for coronary bypass 62
Postoperative, volume-oriented IPPB—Age effect on 63
Pre-operative screening and cost-effectiveness of respiratory therapy 62
Pressure bandage for arterial puncture 286
Preventing postoperative complications 60
Preventive equipment care 777
Products (new) at 1977 AART Convention 599
Pulmonary function test interpretation 779
Pulmonary function values related to morphometry in children 68
$P\bar{v}_{O_2}$—Shortcomings of 237, 238

R

Rat survival, weight, lung changes after oxygen breathing 760
Regional perinatal-neonatal care 873
Registry eligibility 1052, 1058
Registry eligibility change opposed 789
Registry evaluation by clinical simulation 570
Registry pass rates and schools 255
Research (basic) to fight respiratory disease 886
Resistance of endotracheal tubes 14, 128, 830
Respiratory distress syndrome of adults 1087
Respiratory distress syndrome after *Streptococcus pneumoniae* 686
Respiratory intensive care 949
Respiratory muscles 616
Respiratory tract injury in pediatric burn patients 66
Resuscitation (cardiopulmonary) team effectiveness 79
Resuscitation: "Do not resuscitate" orders 1126
Reye's syndrome 383, 384, 392, 743
Role of therapist in mechanical ventilation 567
Rotating shift woes 1178
Running a seminar or workshop 860

S

Safety (electrical) in medicine 965
Safety (patient) and BEAR I ventilator 550
Scavenger attachment to reduce operating-room pollution 176
Scavenger (overflow-gas) for Jackson-Rees anesthesia system 178
Schools and registry pass rates 255
Self-evaluation exam answers disputed 455
Self-extubation occurrence: Need and predictability for reintubation 68
Self-instructional materials in respiratory care: Discussion and listing 216
Seminar—Running a 860
Sigh mechanism testing on MA-1 924
Simulated patient-management problems to evaluate clinicians 397
Simulation (clinical) for registry evaluation 570
Skills (clinical) evaluation 269
Skills (clinical) of students—assessing 158
Small airways disease 201
Smokers and immunity 689
Smoking (cigarette) and American health 883
Smoking: Does anti-smoking education work? 811
Smoking and Health: AART statement 692
Smoking in hospitals 514
Smoking: How to make tobacco companies pay for cancer 212
Solubility coefficient of oxygen 246
Sound: see "Noise"
Spectrometry (mass monitoring of respiratory variables 671
Spirometer bellows visibility improved 644
Spirometry (routine) for all age 6 or older 84
Sputum wet prep technique 1151
Standards (quality) for medical devices 1086
Standards for Respiratory Care Services by JCAH 876
State credentialing 755
Stenosis (tracheal) cannula 959
Sterilization safety 777
Steroids 492

Streptococcus pneumoniae and respiratory distress syndrome 686
Student clinical performance appraisal 49
Students' clinical skills—Assessing 158
Students ill-informed about credentialing 349
Students' transfer problems 1174
Suctioning (nasotracheal) and arterial oxygen saturation 68
Superoxide 851
Supervisors' human relations skills 680
Supervisors (respiratory therapy) training curriculum 45
Surgery (thoracic and abdominal) effect on lung 1092
Syringes (various) and blood gas stability 63

T

Tape recordings used during dyspnea panic 767
Team effectiveness in cardiopulmonary resuscitation 79
Tent (aerosol) fluid-feed system 174
Terminology (ventilation) 37, 42, 559
Test simulation 31
Therapist's role in mechanical ventilation 567
Thoracic surgery effect on lung 1092
Tidal volume in V_D/V_T 247
Toxicity (oxygen) in rats 760
Toxicity (oxygen) and superoxide 851
Tracheal atresia (neonatal) 864
Tracheal stenosis cannula 957
Training respiratory therapy supervisors 45
Transfer problems of students 1174
Transfusions—Effects on neonates 65
Transport (neonatal): Pre-transport stabilization 868
Trauma (chest) 1078
Tube (endotracheal) resistance 14, 128, 830
Tubes—see also "Endotracheal tubes"

U

Ultrasound and hearing 645
Utilization of respiratory therapy—Computer analysis of 71

V

V_D/V_T—Tidal volume in 247
Ventilation (computer-assisted)—Program for 70
Ventilation (high frequency) 776
Ventilation (mechanical) effects on intracranial hypertension 82
Ventilation (mechanical)—Physiological approach to 71
Ventilation (mechanical)—Therapist's role in 567
Ventilation (mechanical)—Weaning from 281
Ventilation meter accuracy 856
Ventilation of neonates and capillary filling time 65
Ventilation (pulmonary) terminology 37, 42, 559
Ventilator (adult) modified for infants 264
Ventilator (Bourns) compliance and flow-rate modified 291
Ventilator circuits and gas laws 836
Ventilator management and computers 70
Ventilator volume (compressible) 349
Ventilators (neonatal pressure-limited)—Monitoring 74
Ventilators (three)—Wash-out volume of 74
Vibration (self-administered) in respiratory physiotherapy 960
Vocabulary board for patient communication 290
Volume (compressible) of ventilators 349
Volume (inspired) evaluation of IPPB patients 39
Volume-oriented IPPB 39

W

Warner-Chilcott Literary Award winner 44
Wash-out volumes of three ventilators 74
Weaning from mechanical ventilation 281
Wet prep (sputum) technique 1151
Workshop—Running a 860
Wright ventilation meter accuracy 856
Writing for publication 669

X

Xanthine bronchodilatation 26